

Amendments to the Drawings:

The attached sheets of drawings include changes to Figure 1 and Figure 11A.

One sheet, which includes Figure 1, replaces the sheet including Figure 1. In

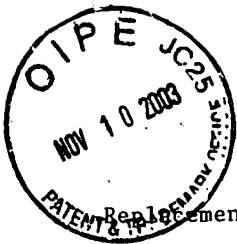
Figure 1, the label "PRIOR ART" has been added.

Applicants submit thirty (30) sheets of substitute sheets of drawings for Figures 2 through Figure 17B in the above captioned patent application. No new matter is added by the substitute sheets of drawings for Figures 2 through Figure 17B.

Attachment: Replacement Sheet for Figure 1

Annotated Sheet Showing Changes for Figure 1

Substitute Sheets for Figures 2-17B



TITLE: OPTIMIZATION OF ABUTTED-PIN HIERARCHICAL PHYSICAL DESIGN
INVENTOR(S): Pete Dahl, Byron Dickinson, Margie Levine and Paul Rodman
USSN: 09/714,722 ATTORNEY DOCKET#: RESH-001

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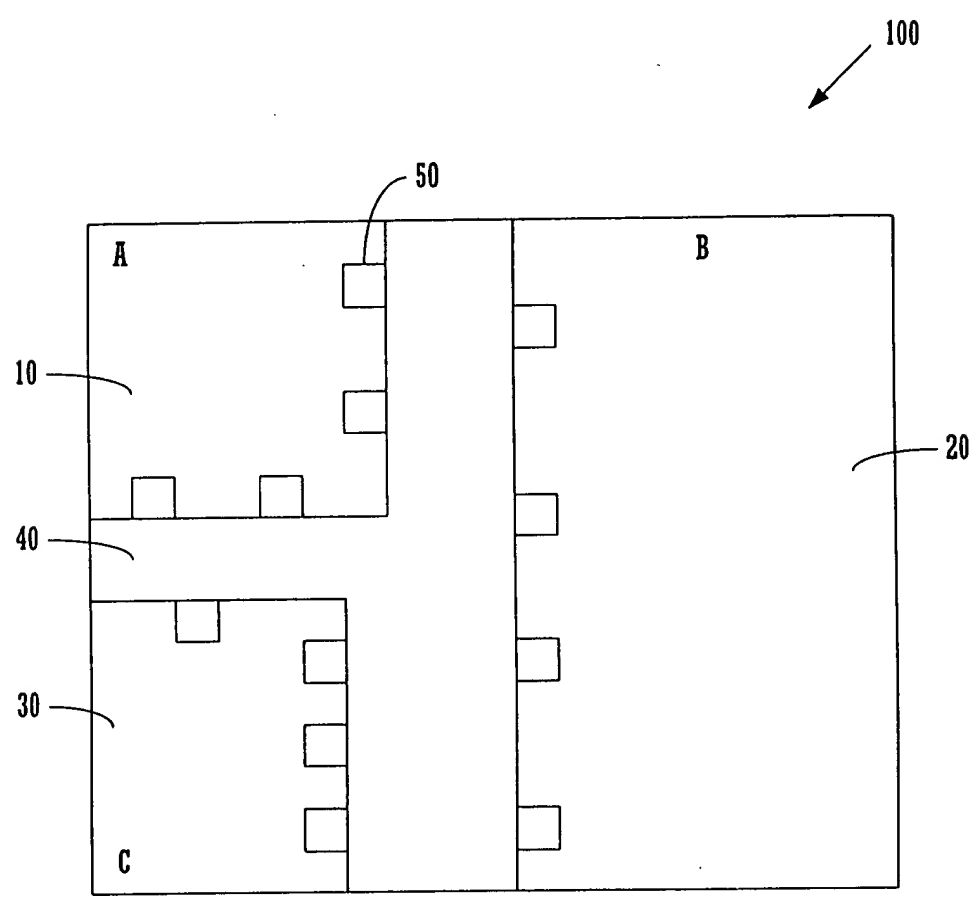


FIGURE 1
(Prior Art)



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Annotated Sheet

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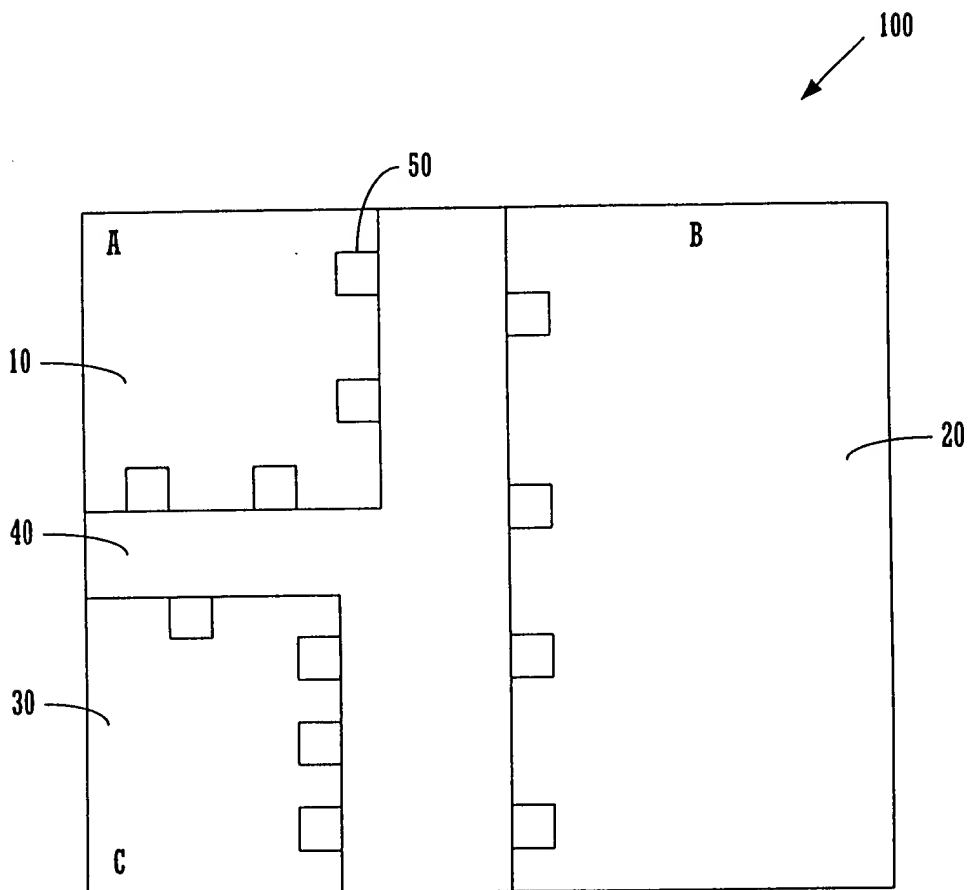


FIGURE 1
(Prior Art) ← added

Substitute sheet

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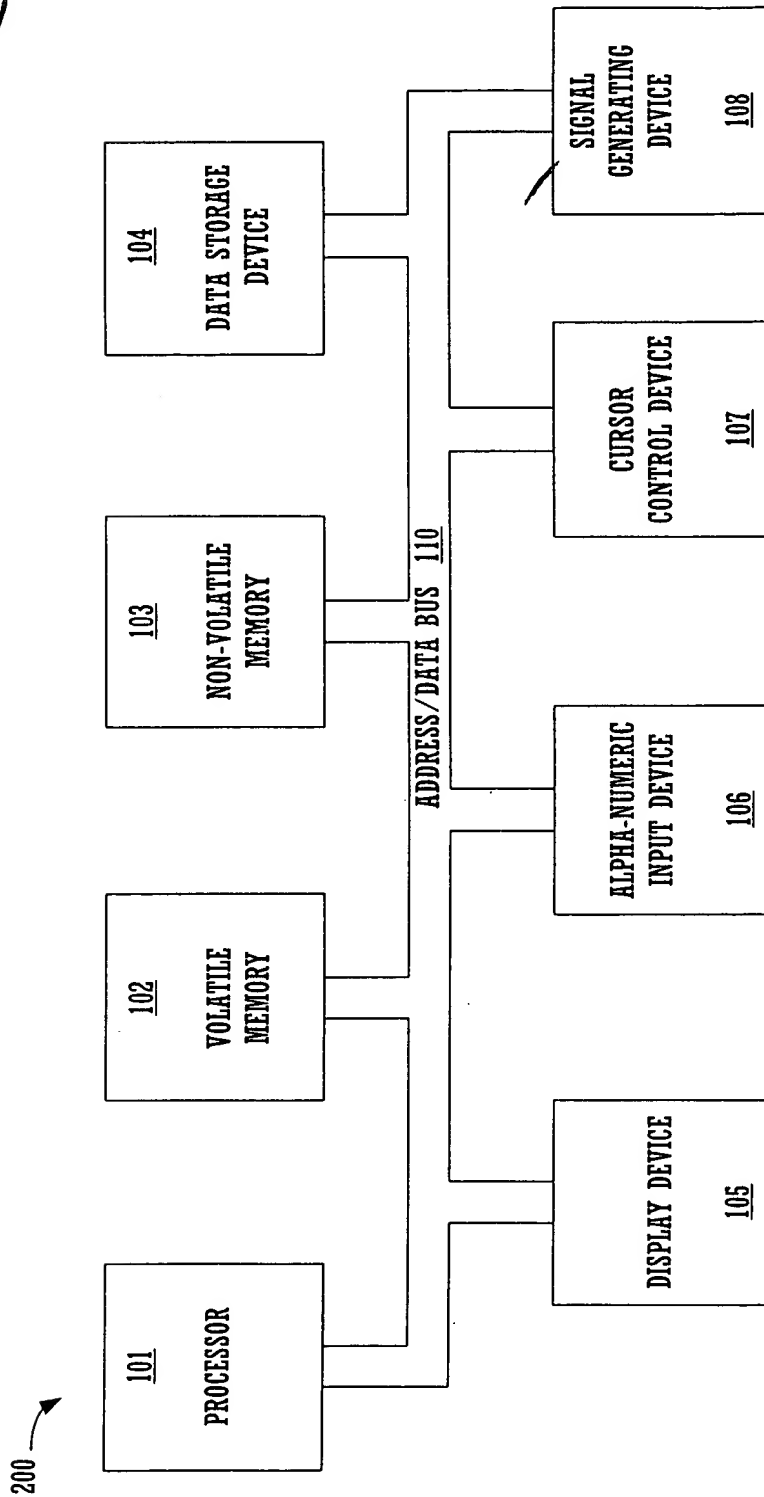


FIGURE 2

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300

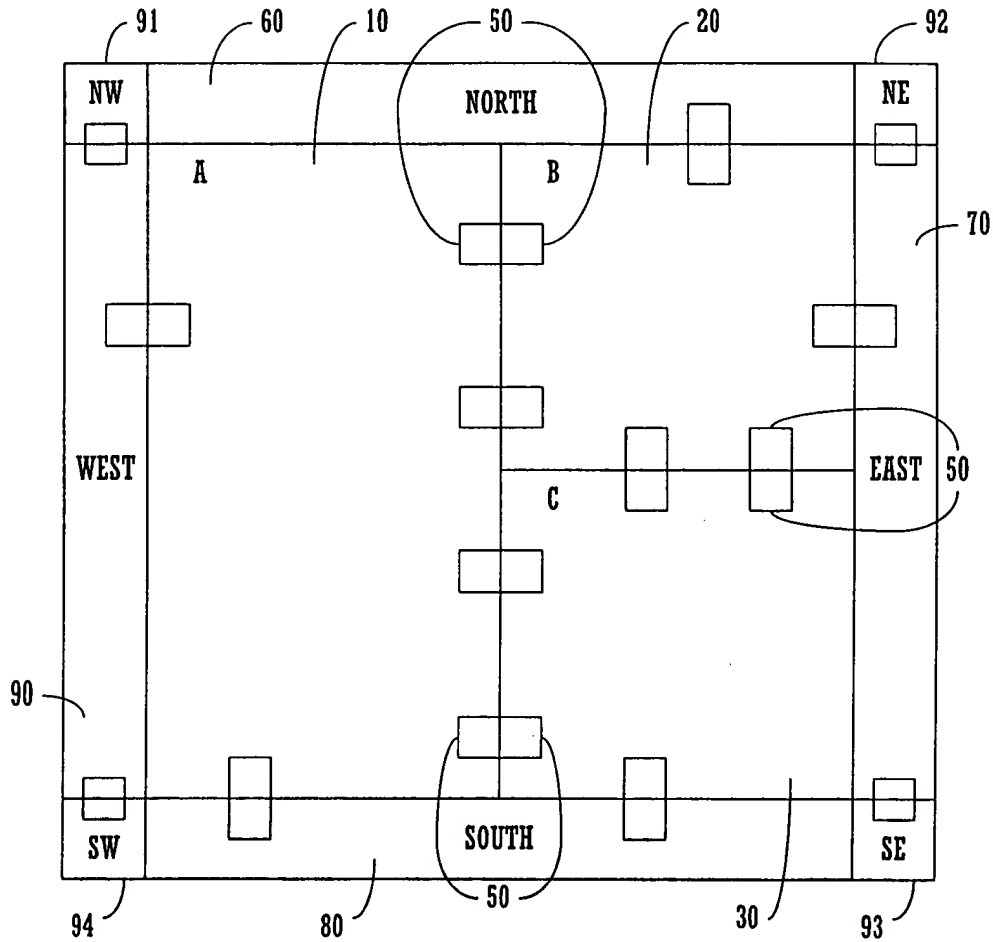


FIGURE 3



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400

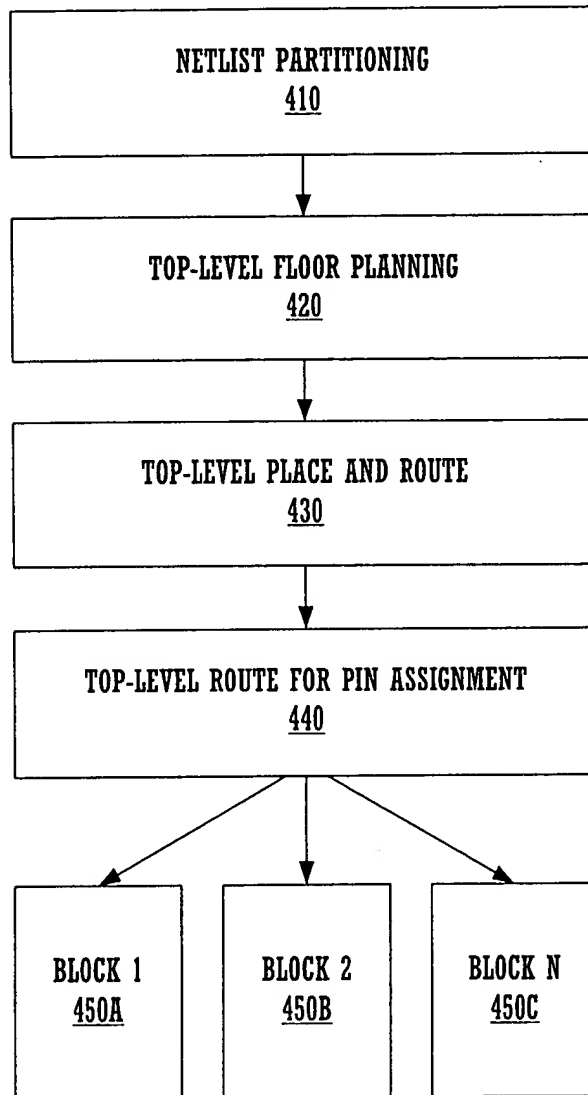


FIGURE 4



Substitute Sheet

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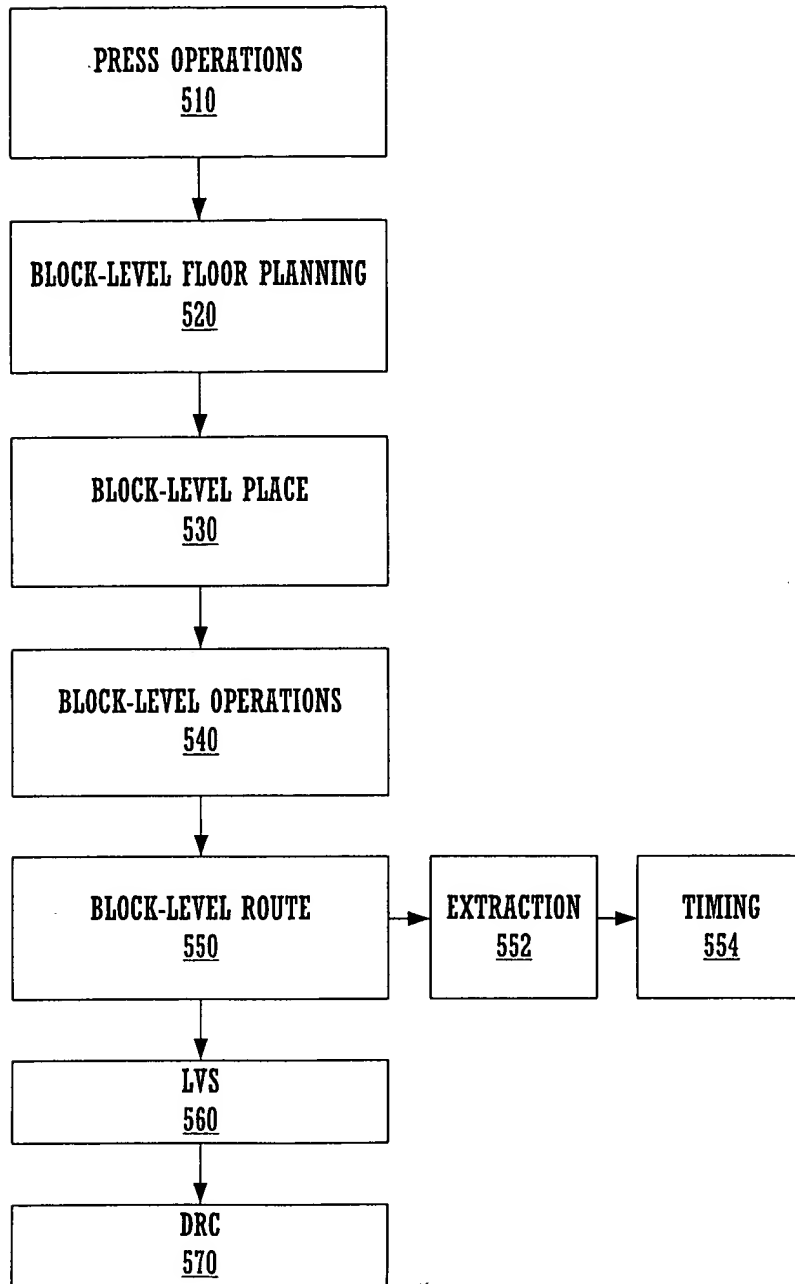


FIGURE 5



Substitute sheet

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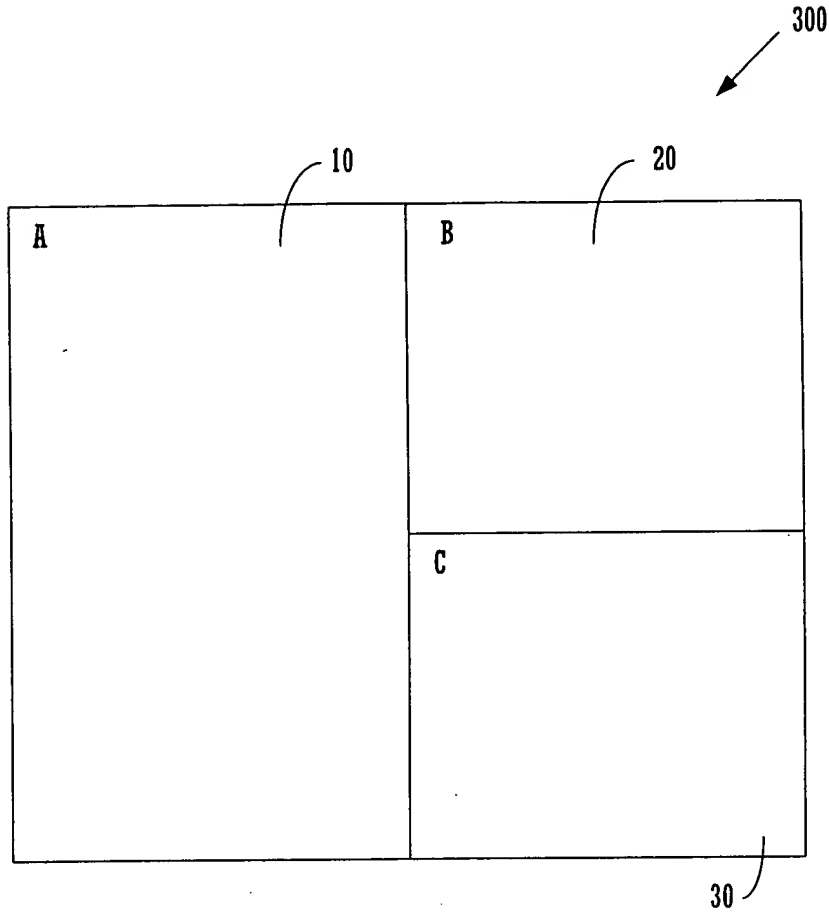


FIGURE 6



Substitute sheet

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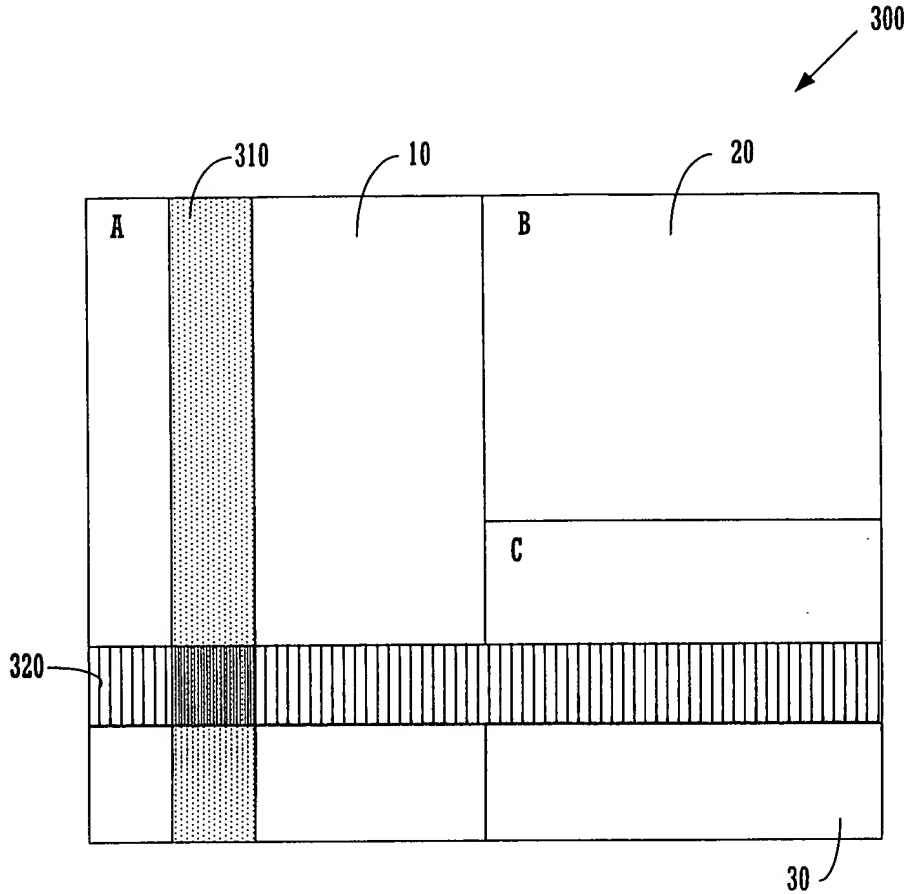


FIGURE 7



Substitute Sheet

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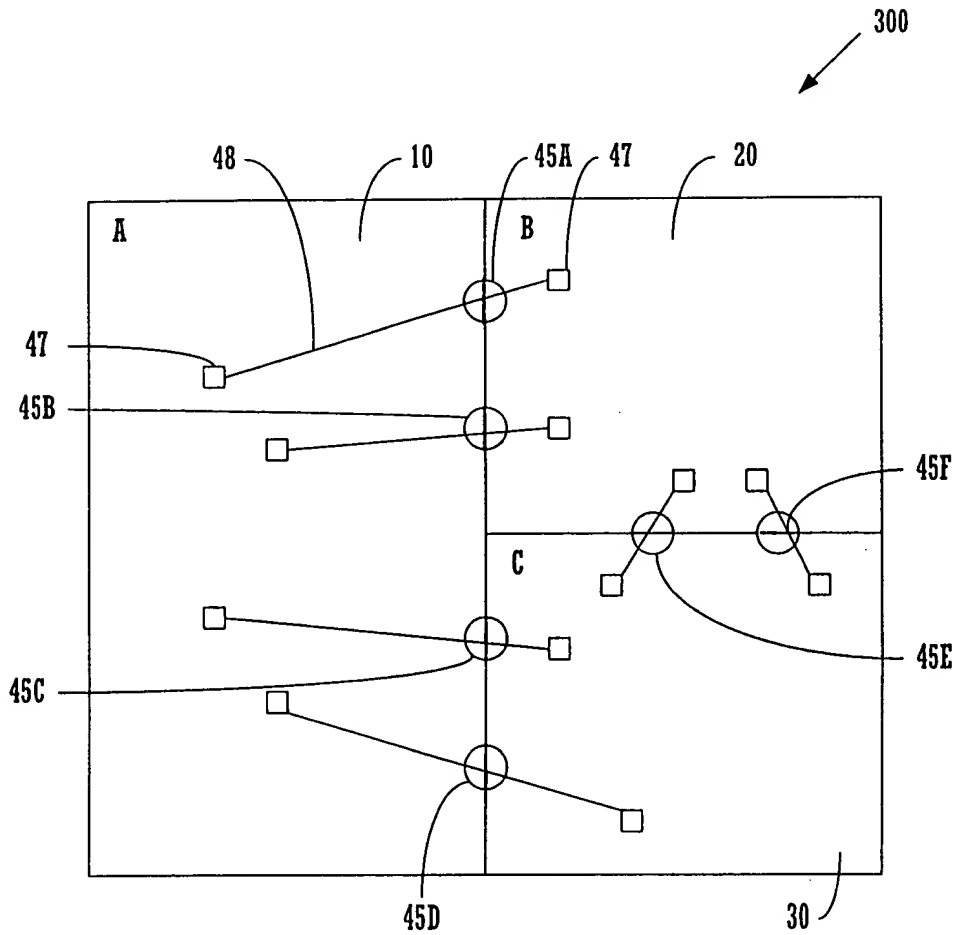


FIGURE 8

Substitute Sheet

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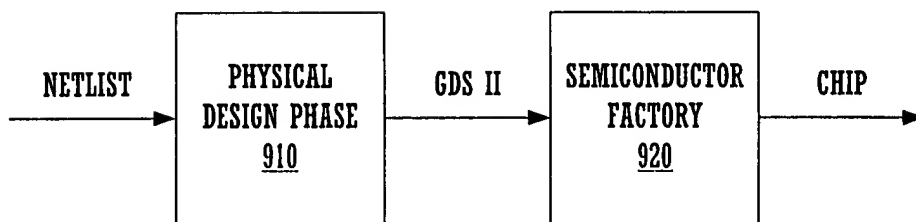


FIGURE 9A
(Prior Art)

Substitute Sheet

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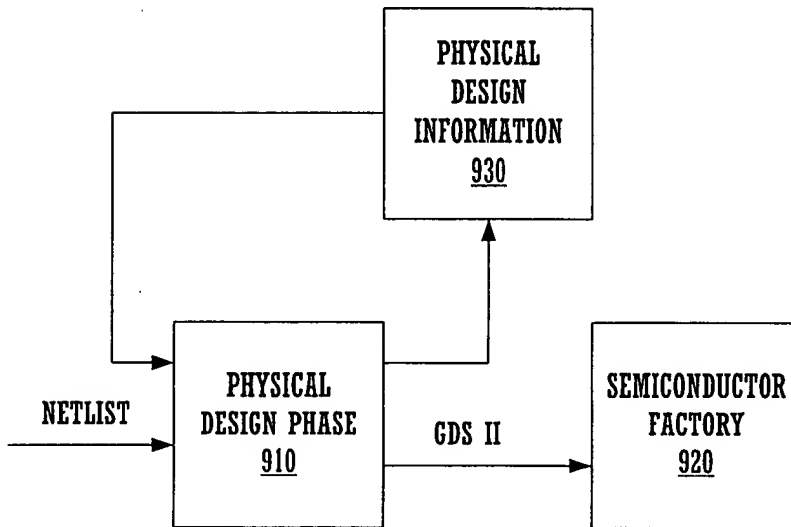


FIGURE 9B



TITLE: OPTIMIZATION OF ABUTTED-PIN HIERARCHICAL PHYSICAL DESIGN
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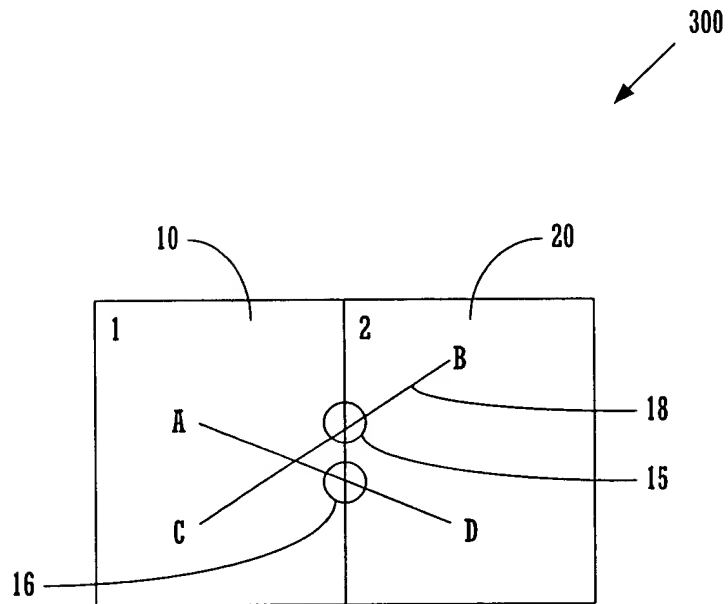
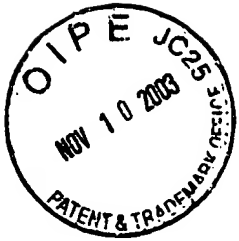


FIGURE 10A



Substitute sheet

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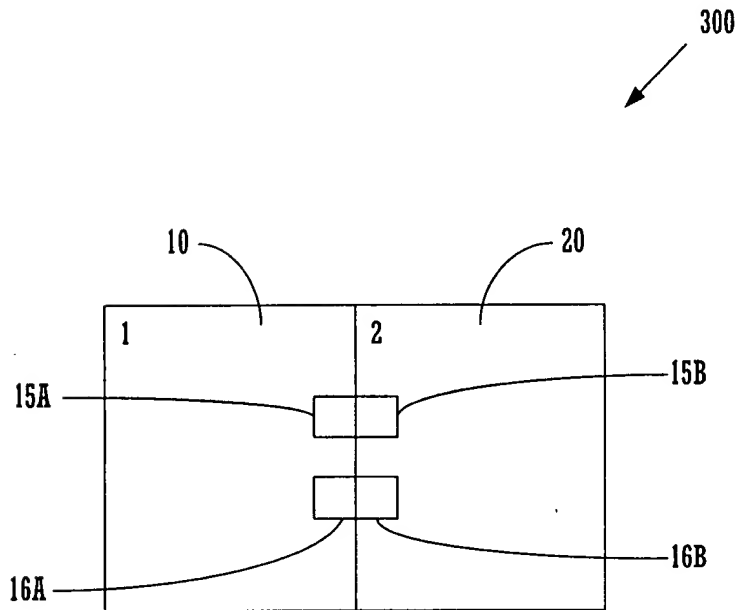


FIGURE 10B

Substitute sheet

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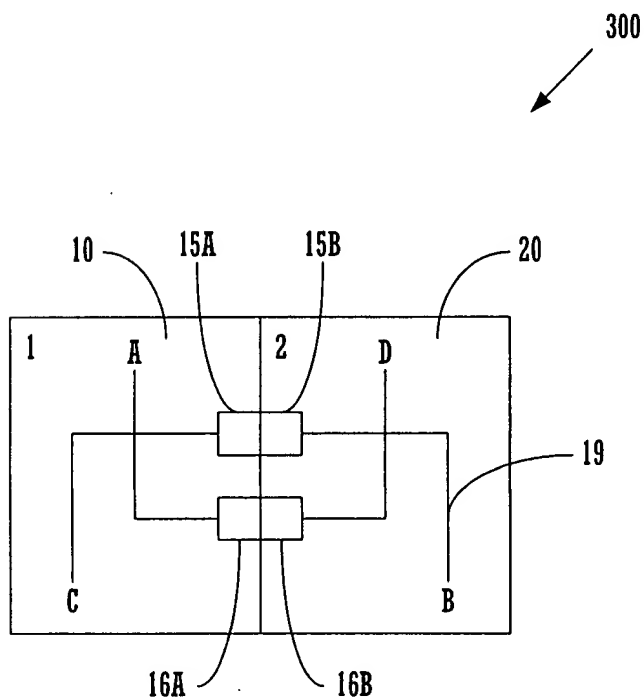
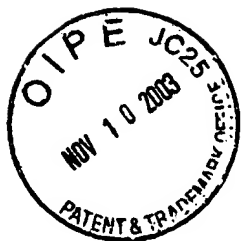


FIGURE 10C



Substitute sheet

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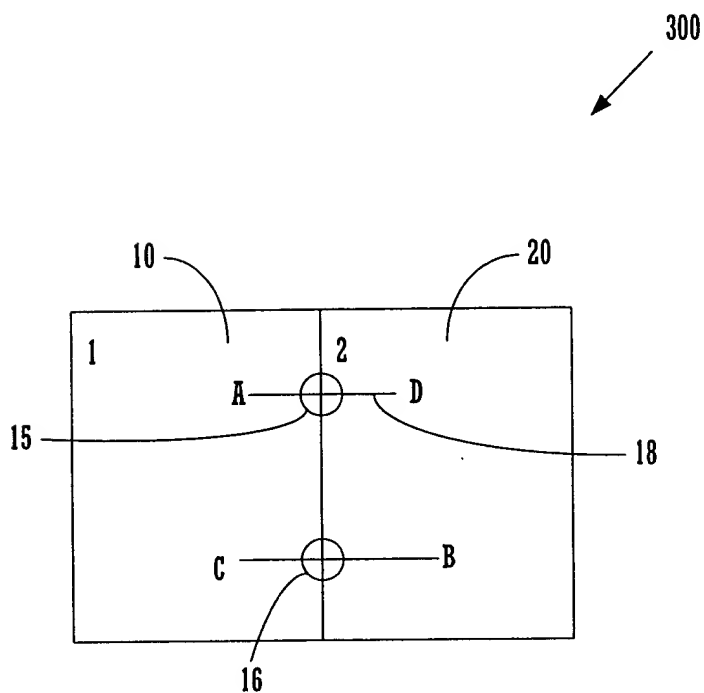


FIGURE 11A

Substitute Sheet

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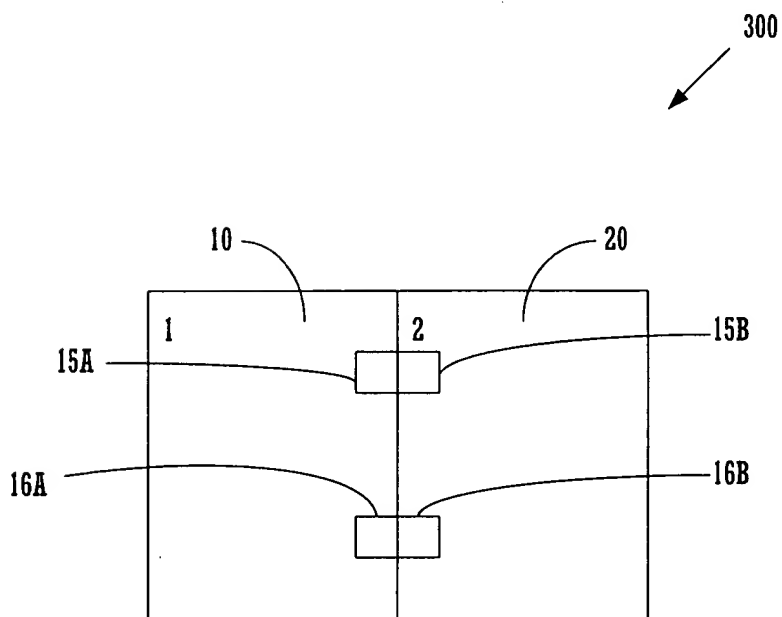


FIGURE 11B



Substitute Sheet

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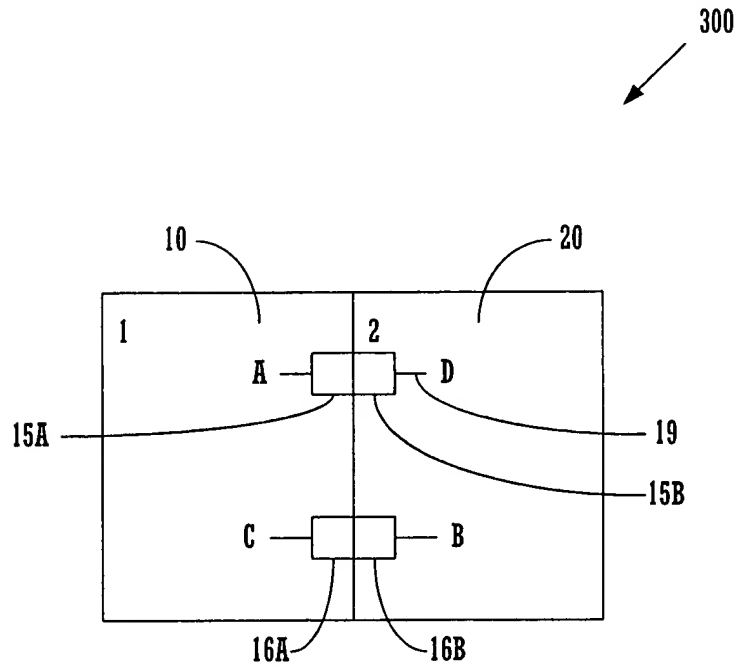


FIGURE 11C



Substitute sheet

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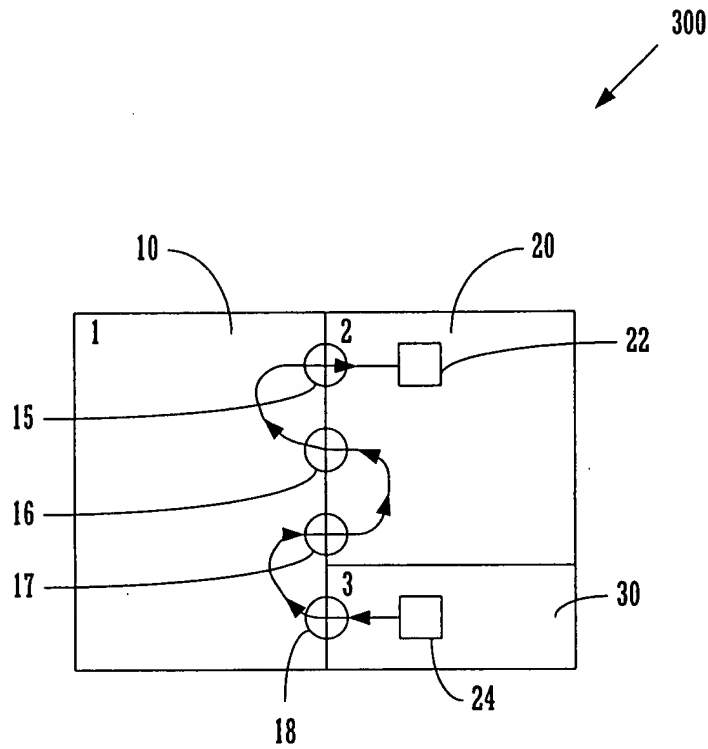


FIGURE 12A



Substitute Sheet

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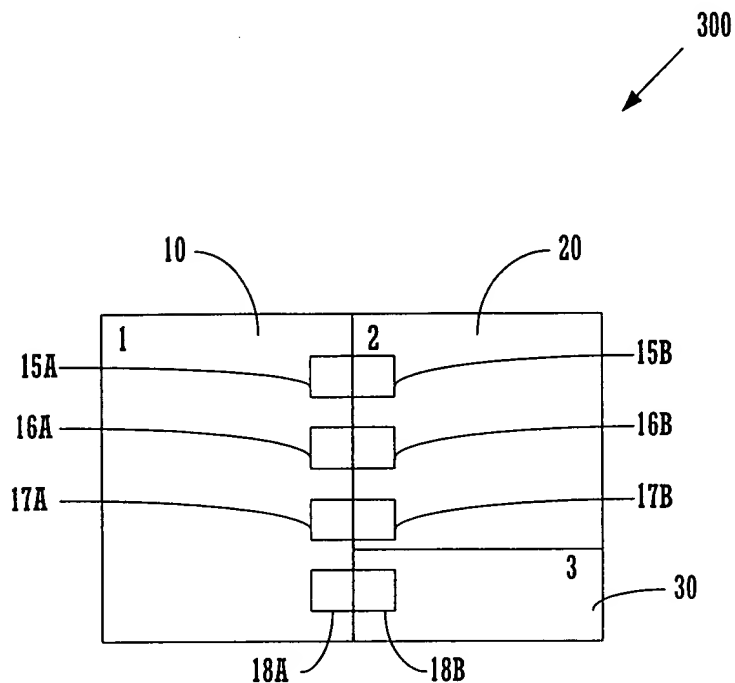


FIGURE 12B



Substitute Sheet

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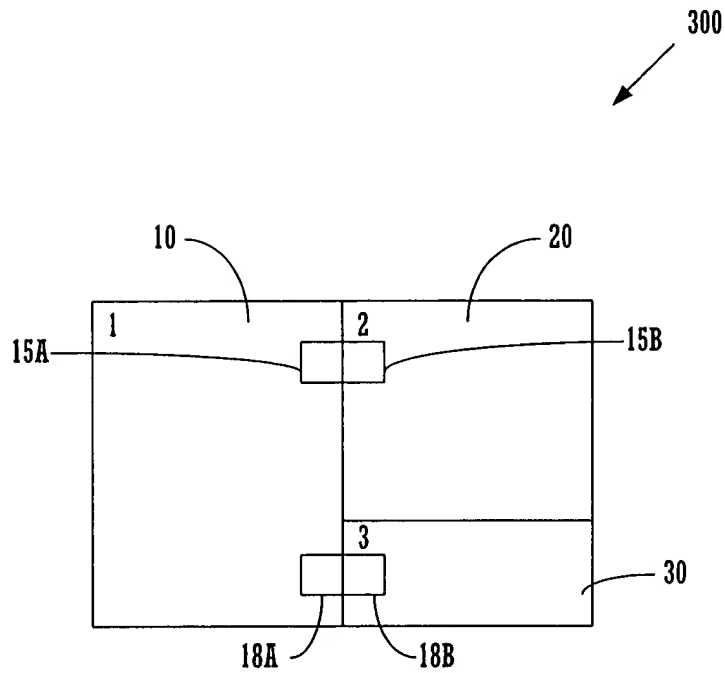


FIGURE 12C



Substitute Sheet

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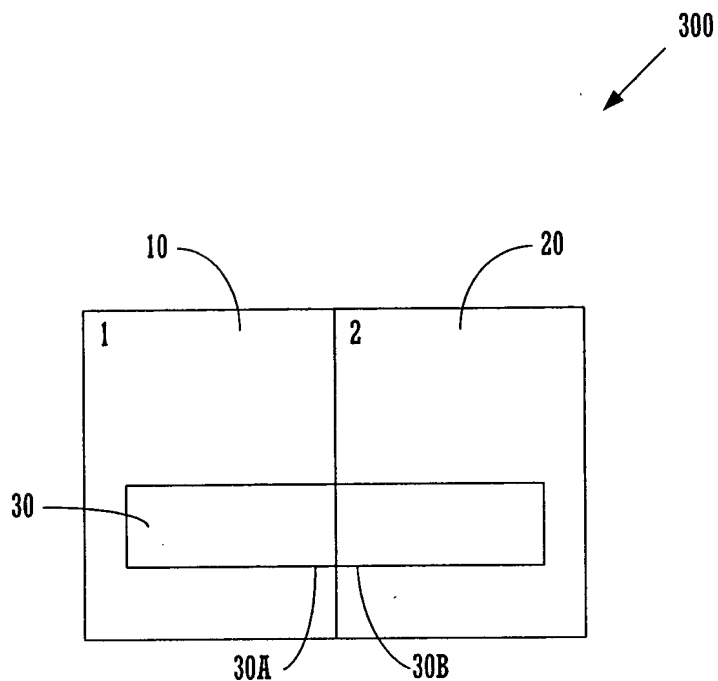


FIGURE 13A



Substitute Sheet

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30A

FIGURE 13B



Substitute Sheet

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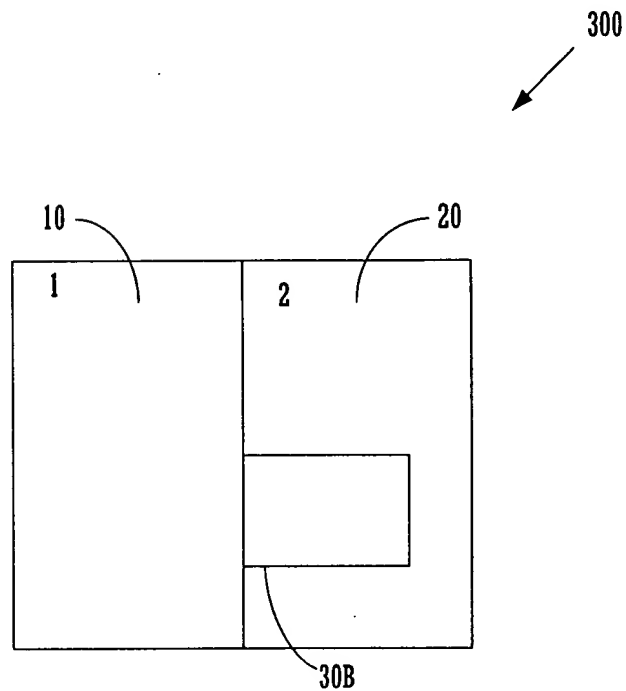


FIGURE 13C



Substitute Sheet

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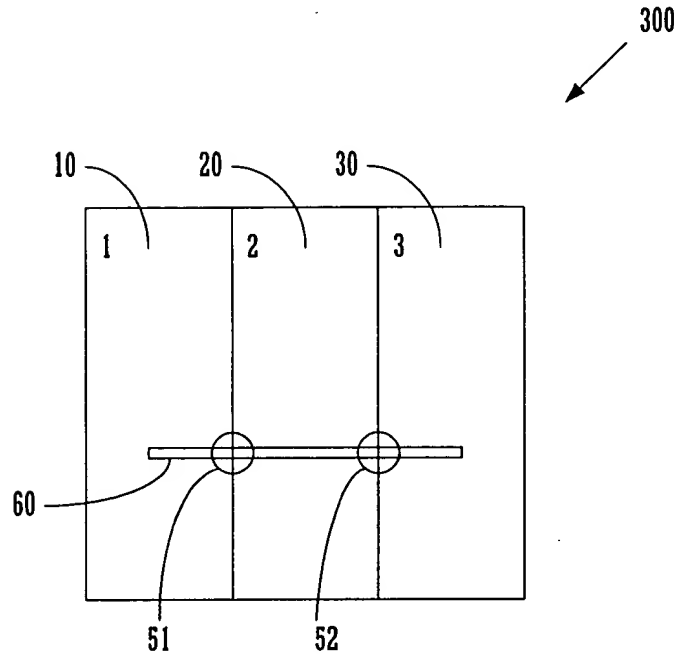


FIGURE 14A



Substitute Sheet

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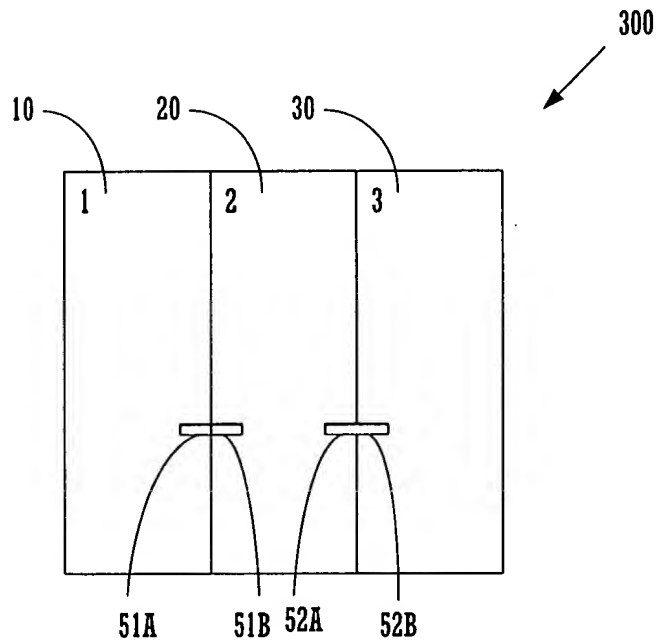


FIGURE 14B



Substitute Sheet

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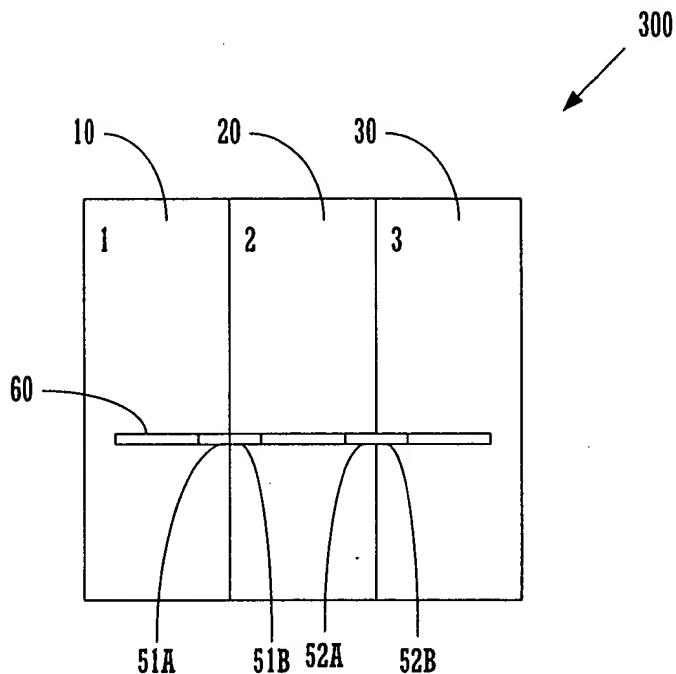


FIGURE 14C



Substitute Sheet

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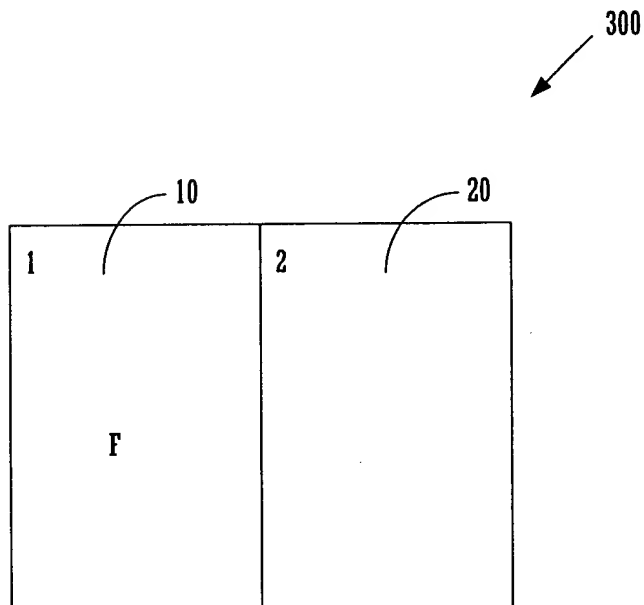


FIGURE 15A



Substitute Sheet

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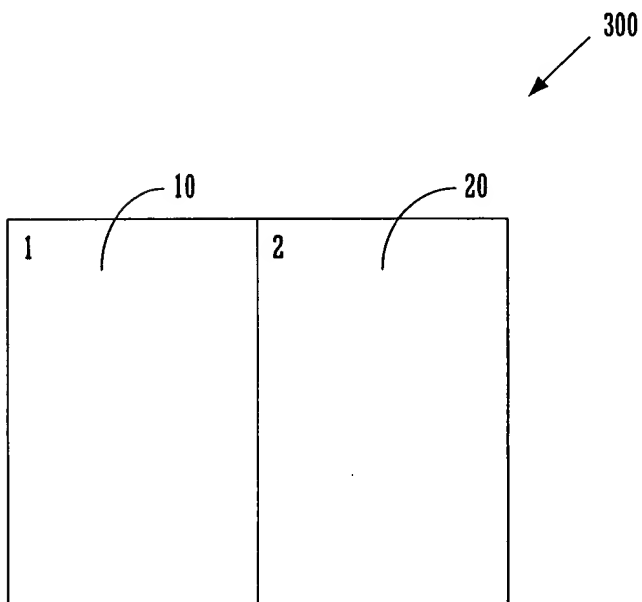


FIGURE 15B



Substitute Sheet

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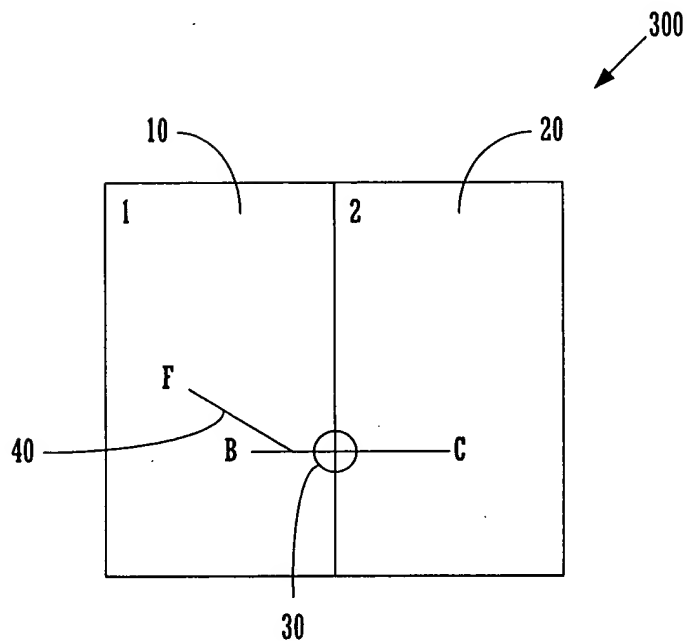


FIGURE 16A

Substitute Sheet



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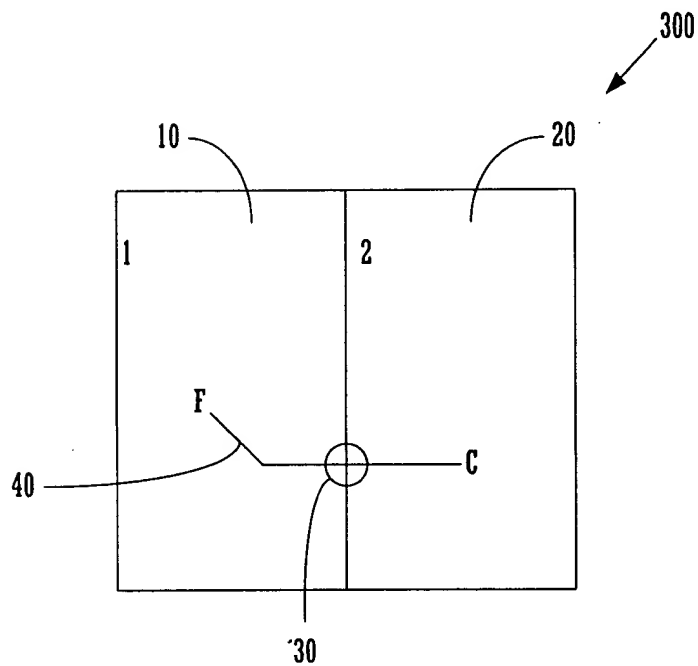


FIGURE 16B



Substitute Sheet

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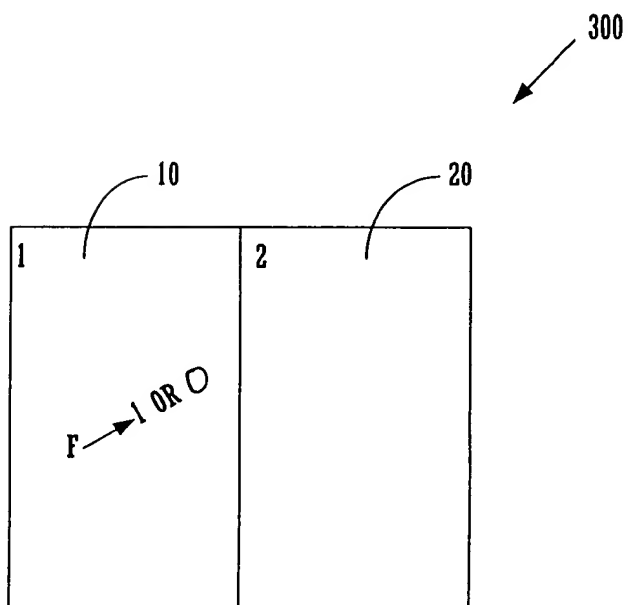


FIGURE 17A



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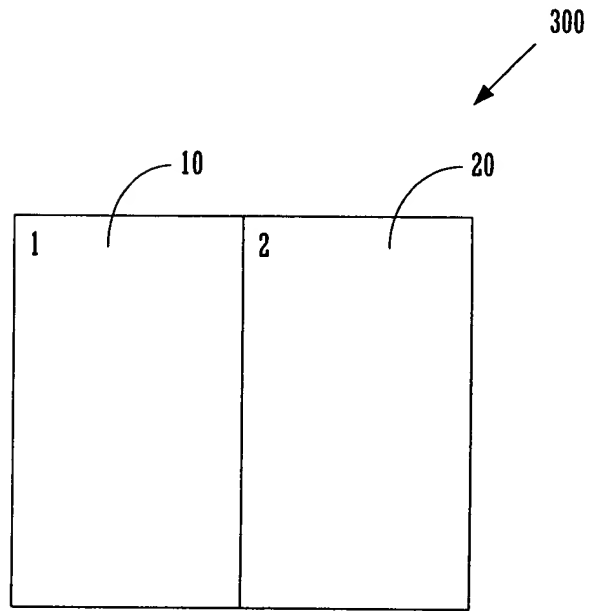


FIGURE 17B